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CANADA

DOMINION BUREAU OF STATISTICS

HEALTH AND WELFARE DIVISION

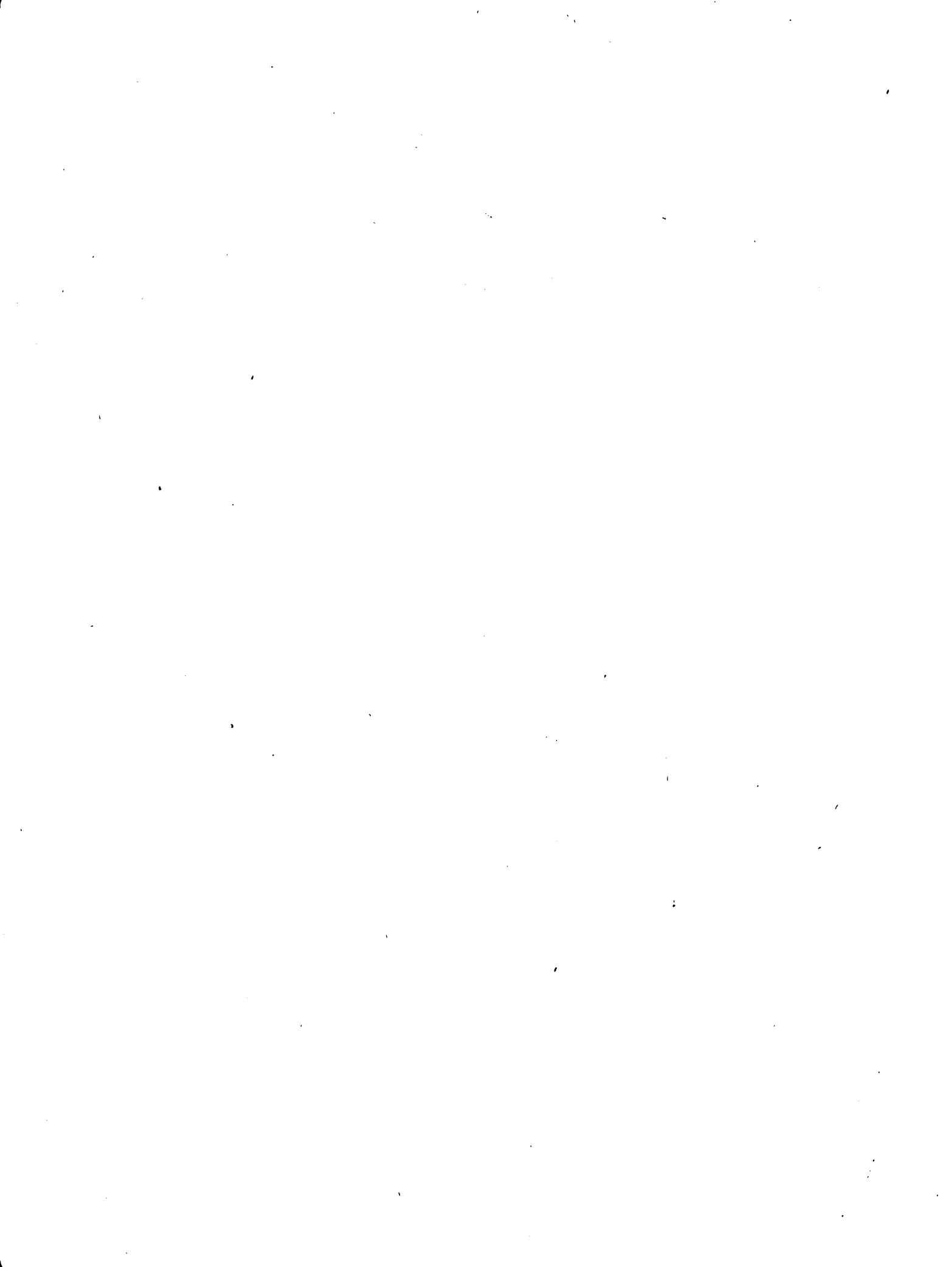
VITAL STATISTICS

ANALYTICAL REPORT NO. 6

LIFE TABLES FOR CANADA

1947

**OTTAWA
1949**



Published by Authority of the Rt. Hon. C. D. Howe, M.P.

Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS, OTTAWA, CANADA

Health and Welfare Division

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VITAL STATISTICS

ANALYTICAL REPORT NO. 6

LIFE TABLES FOR CANADA, 1947

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INTRODUCTION

This bulletin presents life tables for Canada for the year 1947. The tables have been calculated on the basis of the estimated population by sex and age for 1947, and the deaths by sex and age recorded as having occurred during that year.

The tables follow the conventions which are now well established for this purpose. An arbitrary number of births (100,000) of each sex is taken as the starting point. The life tables show how, on the basis of the mortality rates at each age (qx) in 1947, these 100,000 births of each sex would be reduced in number by death. The number living at each age (L_x) constitute the stationary population which would eventually result if births were equal to deaths, no migration took place, and the mortality rates of 1947 were to remain constant. This hypothetical stationary population, based on an assumed constant annual number of births equal to the average in the five years 1942-47, is illustrated in the chart on p.15. It would number 20,112,000. For purposes of comparison, the actual population of 1947, numbering 12,558,000, is also shown. The very large difference is due to two factors: first, mortality rates in the past have been higher than those of 1947, thus reducing more rapidly the number of survivors at each age; second, and more important, the number of births in the past has been generally much less than the average in 1942-47.

The tables presented in this bulletin show that there has been a considerable reduction in mortality since 1930-32, the years for which Canadian life tables were first calculated. Average life expectancy is longer than formerly, as shown by the following figures:

Table 1. - Expectation of Life at Birth and at 1 year of Age in Canada,
as obtained from Life Tables, 1930-32, 1940-42 and 1947.

	<u>1930-32</u>	<u>1940-42</u>	<u>1947</u>
<u>At Birth</u>			
Males	60.00	62.96	65.18
Females	62.10	66.30	69.05
<u>1 Year of Age</u>			
Males	64.69	66.14	67.75
Females	65.71	68.73	70.93

It will be noticed that the expectation of life of females is not only longer, but has increased more than that of males; an increase at birth of 6.95 years since 1930-32 for females compared to an increase of 5.18 years for males; an increase at one year of age of 5.22 years for females compared to an increase of 3.06 years for males. Thus, the mortality rates among women in Canada are lower, and they have been reduced more, than the rates among men.

It will also be noticed that the expectation of life is longer at one year of age than at birth. This is due to the very heavy mortality during the first year, which is discussed below. In general, it is well known that the reduction in mortality rates has been greatest in the young and early adult years. In the later years, there has been only a slight reduction or none at all. With slight exceptions, it will be found that, as age increases, the proportional reduction in mortality rates becomes smaller. The figures can be summarized as follows:

Table 2. - Mortality rates in Canada, as obtained from Life Tables,
1930-32, 1940-42 and 1947.
(per 100,000 population)

<u>Age</u>	<u>1930-32</u>	<u>1940-42</u>	% Decline from <u>1930-32</u>	% Decline from <u>1947</u>
				<u>1930-32</u>
<u>Males</u>				
<u>Infant mortality</u>				
(per 100,000 live births)	8,695.0	6,250.0	28.1	5,198.0
1 year	1,193.2	723.7	39.3	431.5
2 - 4 years	442.6	309.2	30.1	196.3
5 - 9 "	217.6	158.8	27.0	115.9
10 - 19 "	206.3	162.0	21.5	128.0
20 - 39 "	365.1	286.4	21.6	232.7
40 - 59 "	955.3	945.6	1.0	907.9
60 - 79 "	4,552.7	4,666.6	+2.5	4,445.7
80+	17,838.0	18,064.9	+1.3	17,025.5
				4.6
<u>Females</u>				
<u>Infant mortality</u>				
(per 100,000 live births)	6,931.0	4,931.0	28.9	4,003.0
1 year	1,085.7	633.3	31.7	377.9
2 - 4 years	387.7	257.6	33.6	156.6
5 - 9 "	179.8	123.5	31.3	79.4
10 - 19 "	194.0	121.1	37.6	96.7
20 - 39 "	399.1	266.3	33.3	192.9
40 - 59 "	870.8	753.8	13.4	655.1
60 - 79 "	4,127.1	3,891.1	5.7	3,580.5
80+	16,895.7	16,590.7	1.8	16,018.0
				5.2

It is often stated that life tables provide, in a standardized statistical form, a summary of the health and general conditions of mortality of the population in a given year. This is only partly true, and clearly less and less so as age increases. A child in its first year of life, if it dies, may be said to have died mainly because of adverse causes and conditions operating in the given year. But except in times of upheaval or in the case of the majority of violent deaths, a person 50, 60 or more years of age usually dies as a result of causes and conditions which go back over a number of years. Economic and social factors, the general pace and burden of life, each person's record of health and temperamental ability to adjust to circumstances as they arise - all these, as well as the immediate causes of death, obviously have an important influence on mortality.

With regard to the causes of death themselves, the diseases which account for the majority of deaths in the older age groups are classified as chronic and degenerative rather than acute and infectious. Their incidence is long-term and relatively unvarying. Concerted efforts to reduce them have been started only fairly recently. Meanwhile, the expectation of life at age 50, 60 and above remains approximately the same as 20 or even 50 years ago. It is at the younger ages that the increase shown in Table 1 is mainly to be found.

Compared to the rates in many countries of the world, infant mortality in Canada is low. It has been reduced by over 40 per cent since 1930-32, and by nearly 20 per cent since 1940-42. These reductions alone have added nearly two years to the life expectancy at birth of Canadian children. Tables II - IV show how infant deaths of each sex are distributed in the first year; they give a breakdown in life table form of the first line (age 0) of the main tables. The reductions which have been achieved since 1930-32 may be summarized thus:

Table 3. - Mortality Rates during the First Year of Life in Canada,
as obtained from Canadian Life Tables,
1930-32, 1940-42 and 1947.
(per 100,000 entering each age group)

Age			% Decline	% Decline	
	1930-32	1940-42	from 1930-32	1947	from 1930-32
<u>Males</u>					
Under 1 day	1,619.0	1,221.0	24.6	1,262.0	22.0
1 day - 1 week	1,475.9	1,218.9	17.4	1,044.2	29.3
1 week - 1 month	1,253.5	855.8	31.7	742.0	40.8
1 - 4 months	2,212.8	1,583.6	28.4	1,213.6	45.2
4 - 8 "	1,538.5	997.8	35.1	685.8	55.4
8 - 12 "	923.4	538.9	41.6	363.6	60.6
<u>Females</u>					
Under 1 day	1,217.0	895.0	16.5	922.0	24.2
1 day - 1 week	1,135.8	916.2	19.3	767.1	32.5
1 week - 1 month	1,027.0	706.7	31.2	571.6	44.3
1 - 4 months	1,731.9	1,230.7	28.9	929.9	46.3
4 - 8 "	1,257.1	808.9	35.7	546.2	56.5
8 - 12 "	768.7	476.3	38.0	333.3	56.6

Here we see the opposite trend to that noted in Table 2. As age increases during the first year, the reduction in mortality rates is proportionately greater. Thus, mortality at both ends of the life span, where it is highest, has declined relatively less or not at all, whereas for the intervening years, where it is lower, it has declined relatively more. The differences in mortality according to age have thus increased.

The preparation of these life tables for 1947 has been under the direction of Mr. H. Lukin Robinson, of the Public Health Statistics section. The calculations were done by Miss Margaret Fleming and others of the Social Analysis section of the Census Division of the Bureau.

Publie par ordre du très hon. C. D. Howe, M.P.,

Ministre du Commerce

BUREAU FEDERAL DE LA STATISTIQUE, OTTAWA, CANADA

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STATISTIQUES VITALES

RAPPORT ANALYTIQUE NO. 6

TABLES DE SURVIE DU CANADA, 1947

INTRODUCTION

Le présent bulletin contient les tables de survie du Canada pour l'année 1947. Elles sont calculées d'après la population estimative par sexe et par âge en 1947 et d'après les décès par sexe et par âge survenus au cours de la même année.

Les tables sont construites d'après les conventions maintenant bien établies à cette fin. Un nombre arbitraire de naissances (100,000) de chaque sexe est pris comme point de départ. Les tables de survie montrent comment, d'après la mortalité à chaque âge (q_x) en 1947, ce nombre de 100,000 personnes de chaque sexe serait réduit par la mort. Le nombre de personnes vivantes à chaque âge (L_x) constitue la population stationnaire qui existerait éventuellement si les naissances étaient égales aux décès, s'il n'y avait aucune migration et si la mortalité constatée en 1947 restait constante. Cette population stationnaire, basée sur un nombre hypothétique de naissances annuel et constant égal à la moyenne des cinq années 1942-1947, est illustrée dans le graphique à la p.15. Elle se chiffrait à 20,112,000. Pour fins de comparaison, la population réelle de 1947, soit 12,558,000, est aussi donnée. La très grande différence est due à deux facteurs: d'abord, la mortalité dans le passé a été plus élevée qu'en 1947, réduisant ainsi plus rapidement le nombre de survivants à chaque âge; ensuite, et ce qui est plus important, le nombre de naissances dans le passé a été généralement beaucoup moins élevé que la moyenne de 1942-1947.

Les tables contenues dans le présent bulletin montrent que la mortalité a diminué sensiblement depuis 1930-1932, premières années pour lesquelles les tables de survie du Canada ont été calculées. La vie moyenne ou probable est plus longue qu'autrefois, ainsi que l'indique les chiffres suivants:

Table 1. - Vie probable à la naissance et à l'âge d'un an au Canada,
d'après les Tables de survie, 1930-32, 1940-42 et 1947.

	<u>1930-32</u>	<u>1940-42</u>	<u>1947</u>
<u>A la naissance</u>			
Sexe masculin	60.00	62.96	65.18
" féminin	62.10	66.30	69.05
<u>A l'âge de 1 an</u>			
Sexe masculin	64.69	66.14	67.75
" féminin	65.71	68.73	70.93

On remarquera que la vie moyenne chez le sexe féminin est non seulement plus longue, mais qu'elle a augmenté plus que chez le sexe masculin; une augmentation, à la naissance, de 6.95 ans depuis 1930-32 chez le sexe féminin comparée à une augmentation de 5.18 ans chez le sexe masculin; une augmentation, à l'âge d'un an, de 5.22 ans comparée à une augmentation de 3.06 ans. Ainsi, la mortalité chez le sexe féminin, au Canada, est plus basse et s'est abaissée davantage que chez le sexe masculine.

On remarquera aussi que la vie probable à l'âge d'un an est plus longue qu'à la naissance. Cela est attribuable à une mortalité très élevée durant la première année, étudiée en détail plus bas. Il est reconnu, en général, que la réduction de la mortalité a été très marquée chez les adolescents et les jeunes adultes. Plus tard, la réduction n'est que légère ou nulle. D'une façon générale, on constate que la réduction proportionnelle de la mortalité s'amenuise à mesure que l'âge augmente. Les chiffres peuvent être résumés ainsi:

Table 2. - Mortalité au Canada, d'après les Tables de survie
1930-32, 1940-42 et 1947.
(par millier de personnes)

<u>Age</u>	<u>1930-32</u>	<u>1940-42</u>	Baisse depuis 1930-32 en %	<u>1947</u>	Baisse depuis 1930-32 en %
<u>Sexe masculin</u>					
Mortalité infantile (par 100,000 naissances vivantes)					
1 an	8,695.0	6,250.0	28.1	5,198.0	40.2
2 - 4 ans	1,193.2	723.7	39.3	431.5	63.8
5 - 9 "	442.6	309.2	30.1	196.3	55.6
10 - 19 "	217.6	158.8	27.0	115.9	46.7
20 - 39 "	206.3	162.0	21.5	128.0	38.0
40 - 59 "	365.1	286.4	21.6	232.7	36.3
60 - 79 "	955.3	945.6	1.0	907.9	5.0
80+	4,552.7	4,666.6	+2.5	4,445.7	2.3
	17,838.0	18,064.9	+1.3	17,025.5	4.6
<u>Sexe féminin</u>					
Mortalité infantile (par 100,000 naissances vivantes)					
1 an	6,931.0	4,931.0	28.9	4,003.0	42.2
2 - 4 ans	1,085.7	633.3	31.7	377.9	65.2
5 - 9 "	387.7	257.6	33.6	156.6	59.6
10 - 19 "	179.8	123.5	31.3	79.4	55.8
20 - 39 "	194.0	121.1	37.6	96.7	50.2
40 - 59 "	399.1	266.3	33.3	192.9	51.7
60 - 79 "	870.8	753.8	13.4	655.1	24.8
80+	4,127.1	3,891.1	5.7	3,580.5	13.2
	16,895.7	16,590.7	1.8	16,018.0	5.2

On dit souvent que les tables de survie donnent, sous une forme statistique standardisée, un aperçu de la santé et de la situation générale de la population au point de vue de la mortalité au cours d'une année donnée. Cela n'est vrai qu'en partie et de moins en moins vrai avec l'avance en âge. Au sujet d'un enfant qui meurt au cours de la première année de sa vie, on peut bien dire qu'il a été la victime de causes et de circonstances qui existaient au cours de cette année particulière. Mais, sauf aux époques de bouleversement ou dans le cas de la majorité des morts violentes, une personne âgée de 50 ou 60 ans et plus meurt ordinairement de causes et de conditions qui remontent de plusieurs années en arrière. Les facteurs économiques et sociaux, le rythme général et les fardeaux de la vie, la feuille de santé de chaque personne et sa faculté constitutionnelle d'adaptation aux circonstances qui se présentent au cours de sa vie exercent manifestement une influence importante, tout comme les causes immédiates de décès, sur la mortalité.

En ce qui concerne les causes proprement dites de décès, les maladies auxquelles se rattachent la majorité des décès dans les groupes d'âge avancé sont classées comme maladies chroniques et de dégénérescence plutôt que comme maladies aigües et infectieuses. Leur incidence est de longue durée et relativement peu variable. Ce n'est que récemment que des efforts concertés ont été tentés pour les réduire. Entretemps, la probabilité de vie à 50, 60 ans et au-dessus reste à peu près la même qu'il y a 20 ou même 50 ans passés. C'est surtout aux âges plus jeunes que se trouve l'augmentation illustrée par les chiffres de la table 1.

Comparée aux taux de plusieurs pays du monde, la mortalité infantile au Canada est basse. Elle a diminué de plus de 40 p.100 depuis 1930-1932 et de près de 20 p.100 depuis 1940-42. A elles seules, ces réductions ont ajouté près de deux années à la vie probable des enfants canadiens à leur naissance. Les tables II à IV font voir la répartition des décès de petits enfants, selon le sexe, dans la première année; ils donnent une décomposition sous forme de tableau de survie de la première ligne (âge 0) des tables principales. Les réductions qui se sont produites depuis 1930-1932 peuvent se résumer ainsi:

Table 3. - Mortalité durant la première année de la vie au Canada,
d'après les Tables de survie
1930-32, 1940-42 et 1947.

(par 100,000 personnes entrant dans chaque groupe d'âge)

<u>Age</u>	<u>1930-32</u>	<u>1940-42</u>	Baisse depuis 1930-32 en %	<u>1947</u>	Baisse depuis 1930-32 en %
<u>Sexe masculin</u>					
Moins de 1 jour	1,619.0	1,221.0	24.6	1,262.0	22.0
1 jour - 1 semaine	1,475.9	1,218.9	17.4	1,044.2	29.3
1 semaine - 1 mois	1,253.5	855.8	31.7	742.0	40.8
1 - 4 mois	2,212.8	1,583.6	28.4	1,213.6	45.2
4 - 8 "	1,538.5	997.8	35.1	685.8	55.4
8 - 12 "	923.4	538.9	41.6	363.6	60.6
<u>Sexe féminin</u>					
Moins de 1 jour	1,217.0	895.0	16.5	922.0	24.2
1 jour - 1 semaine	1,135.8	916.2	19.3	767.1	32.5
1 semaine - 1 mois	1,027.0	706.7	31.2	571.6	44.3
1 - 4 mois	1,731.9	1,230.7	28.9	929.9	46.3
4 - 8 "	1,257.1	808.9	35.7	546.2	56.5
8 - 12 "	768.7	476.3	38.0	333.3	56.6

Nous constatons ici une tendance opposée à celle qui ressort de la table 2. Avec l'avance en âge, durant la première année, la reduction de la mortalité est proportionnellement plus marquée. Ainsi, la mortalité aux deux extrémités de la vie, là où elle est la plus élevée, a baissé relativement moins sinon du tout, tandis que dans les années intermédiaires, où elle est relativement moindre, elle a baissé relativement plus. Les différences dans la mortalité d'après l'âge se sont ainsi accentuées.

Les présentes tables de survie pour 1947 ont été préparées sous la direction de M. H. Lukin Robinson, de la section de la statistique de la santé publique. Les calculs ont été faits par Mlle Margaret Fleming et d'autres membres du personnel de la Section de l'analyse sociale de la Division du recensement du Bureau.

I

Canadian Life Table, 1947.
Table de survie canadienne, 1947.

Males - Hommes

Age _x	l_x	d_x	p_x	q_x	L_x	T_x	e_x
0	100,000	5,198	.94802	.05198	95,668	6,518,173	65.18
1	94,802	408	.99569	.00431	94,561	6,422,505	67.75
2	94,394	237	.99749	.00251	94,269	6,327,944	67.04
3	94,157	170	.99820	.00180	94,069	6,233,675	66.20
4	93,987	147	.99843	.00157	93,911	6,139,606	65.32
5	93,840	131	.99860	.00140	93,774	6,045,695	64.43
6	93,709	119	.99873	.00127	93,619	5,951,921	63.52
7	93,590	108	.99885	.00115	93,536	5,858,272	62.60
8	93,482	96	.99898	.00102	93,434	5,764,736	61.67
9	93,386	88	.99906	.00094	93,342	5,671,302	60.73
10	93,298	85	.99909	.00091	93,256	5,577,960	59.79
11	93,213	85	.99909	.00091	93,170	5,484,704	58.84
12	93,128	87	.99906	.00094	93,085	5,391,534	57.89
13	93,041	95	.99898	.00102	92,993	5,298,449	56.95
14	92,946	108	.99884	.00116	92,892	5,205,456	56.01
15	92,838	122	.99868	.00132	92,777	5,112,564	55.07
16	92,716	137	.99853	.00147	92,647	5,019,787	54.14
17	92,579	148	.99840	.00160	92,505	4,927,140	53.22
18	92,431	157	.99830	.00170	92,352	4,834,635	52.31
19	92,274	164	.99822	.00178	92,192	4,742,283	51.39
20	92,110	171	.99815	.00185	92,025	4,650,091	50.48
21	91,939	175	.99809	.00191	91,851	4,558,066	49.58
22	91,764	180	.99804	.00196	91,674	4,466,215	48.67
23	91,584	183	.99800	.00200	91,493	4,374,541	47.77
24	91,401	185	.99798	.00202	91,308	4,283,048	46.86
25	91,216	186	.99796	.00204	91,123	4,191,740	45.95
26	91,030	188	.99794	.00206	90,936	4,100,617	45.05
27	90,842	189	.99792	.00208	90,748	4,009,681	44.14
28	90,653	190	.99790	.00210	90,558	3,918,933	43.23
29	90,463	191	.99789	.00211	90,368	3,828,375	42.32
30	90,272	192	.99788	.00212	90,176	3,738,007	41.41
31	90,080	194	.99784	.00216	89,983	3,647,831	40.50
32	89,886	200	.99777	.00223	89,786	3,557,848	39.58
33	89,686	210	.99766	.00234	89,581	3,468,062	38.67
34	89,476	222	.99752	.00248	89,365	3,378,481	37.76
35	89,254	235	.99736	.00264	89,137	3,289,116	36.85
36	89,019	251	.99718	.00282	88,894	3,199,979	35.95
37	88,768	268	.99698	.00302	88,634	3,111,085	35.05
38	88,500	285	.99678	.00322	88,358	3,022,451	34.15
39	88,215	303	.99657	.00343	88,064	2,934,093	33.26

Canadian Life Table, 1947.
Table de survie canadienne, 1947.

Males - Hommes

Age _x	l_x	d_x	p_x	q_x	L_x	T_x	e_x
40	87,912	322	.99633	.00367	87,751	2,846,029	32.37
41	87,590	346	.99605	.00395	87,417	2,758,278	31.49
42	87,244	375	.99570	.00430	87,057	2,670,861	30.61
43	86,869	410	.99528	.00472	86,664	2,583,804	29.74
44	86,459	451	.99478	.00522	86,234	2,497,140	28.88
45	86,008	496	.99424	.00576	85,760	2,410,906	28.03
46	85,512	541	.99367	.00633	85,242	2,325,146	27.19
47	84,971	587	.99309	.00691	84,678	2,239,904	26.36
48	84,384	630	.99254	.00746	84,069	2,155,226	25.54
49	83,754	671	.99199	.00801	83,418	2,071,157	24.73
50	83,083	714	.99141	.00859	82,726	1,987,739	23.92
51	82,369	762	.99074	.00926	81,988	1,905,013	23.13
52	81,607	819	.98996	.01004	81,198	1,823,025	22.34
53	80,788	883	.98907	.01093	80,346	1,741,827	21.56
54	79,905	952	.98809	.01191	79,429	1,661,481	20.79
55	78,953	1,025	.98701	.01299	78,440	1,582,052	20.04
56	77,928	1,105	.98583	.01417	77,375	1,503,612	19.30
57	76,823	1,190	.98451	.01549	76,228	1,426,237	18.57
58	75,633	1,280	.98308	.01692	74,993	1,350,009	17.85
59	74,353	1,372	.98155	.01845	73,667	1,275,016	17.15
60	72,981	1,467	.97990	.02010	72,248	1,201,349	16.46
61	71,514	1,567	.97808	.02192	70,731	1,129,101	15.79
62	69,947	1,673	.97609	.02391	69,111	1,058,370	15.13
63	68,274	1,781	.97392	.02608	67,383	989,259	14.49
64	66,493	1,889	.97159	.02841	65,549	921,876	13.86
65	64,604	1,997	.96909	.03091	63,606	856,327	13.25
66	62,607	2,102	.96641	.03359	61,556	792,721	12.66
67	60,505	2,206	.96355	.03645	59,402	731,165	12.08
68	58,299	2,298	.96058	.03942	57,150	671,763	11.52
69	56,001	2,379	.95752	.04248	54,812	614,613	10.98
70	53,622	2,454	.95424	.04576	52,395	559,801	10.44
71	51,168	2,529	.95058	.04942	49,904	507,406	9.92
72	48,639	2,607	.94640	.05360	47,336	457,502	9.41
73	46,032	2,678	.94181	.05819	44,693	410,166	8.91
74	43,354	2,736	.93689	.06311	41,986	365,473	8.43
75	40,618	2,782	.93151	.06849	39,227	323,487	7.96
76	37,836	2,818	.92551	.07449	36,427	284,260	7.51
77	35,018	2,845	.91877	.08123	33,595	247,833	7.08
78	32,173	2,852	.91136	.08864	30,747	214,238	6.66
79	29,321	2,832	.90340	.09660	27,905	183,491	6.26

Canadian Life Table, 1947.
Table de survie canadienne, 1947.

Males - Hommes

Age _x	l_x	d_x	p_x	q_x	L_x	T_x	e_x
80	26,489	2,788	.89473	.10527	25,095	155,586	5.87
81	23,701	2,721	.88522	.11478	22,342	130,491	5.51
82	20,980	2,628	.87473	.12527	19,666	108,149	5.15
83	18,352	2,508	.86334	.13666	17,098	88,483	4.82
84	15,844	2,358	.85115	.14885	14,665	71,385	4.51
85	13,486	2,185	.83802	.16198	12,393	56,720	4.21
86	11,301	1,991	.82382	.17618	10,306	44,327	3.92
87	9,310	1,784	.80839	.19161	8,418	34,021	3.65
88	7,526	1,567	.79183	.20817	6,743	25,603	3.40
89	5,959	1,345	.77424	.22576	5,287	18,860	3.16
90	4,614	1,128	.75547	.24453	4,050	13,573	2.94
91	3,486	922	.73539	.26461	3,025	9,523	2.73
92	2,564	734	.71385	.28615	2,197	6,498	2.53
93	1,830	566	.69094	.30906	1,547	4,301	2.35
94	1,264	421	.66677	.33323	1,054	2,754	2.18
95	843	302	.64118	.35882	692	1,700	2.02
96	541	209	.61404	.38596	436	1,008	1.87
97	332	138	.58521	.41479	263	572	1.72
98	194	86	.55477	.44523	151	309	1.59
99	108	52	.52283	.47717	82	158	1.47
100	56	29	.48925	.51075	42	76	1.35
101	27	15	.45387	.54613	20	34	1.25
102	12	7	.41656	.58344	9	14	1.15
103	5	3	.37742	.62258	3	5	1.05
104	2	1	.33654	.66346	1	2	.96
105	1	1	.29377	.70623	1	1	.86

Canadian Life Table, 1947.
Table de survie canadienne, 1947.

Females - Femmes

Age _x	1 _x	d _x	p _x	q _x	L _x	T _x	e _x
0	100,000	4,003	.95997	.04003	96,720	6,905,309	69.05
1	95,997	362	.99623	.00377	95,783	6,808,589	70.93
2	95,635	193	.99798	.00202	95,533	6,712,806	70.19
3	95,442	141	.99853	.00147	95,368	6,617,273	69.33
4	95,301	114	.99880	.00120	95,242	6,521,905	68.43
5	95,187	96	.99899	.00101	95,139	6,426,663	67.52
6	95,091	84	.99912	.00088	95,049	6,331,524	66.58
7	95,007	74	.99922	.00078	94,970	6,236,475	65.64
8	94,933	64	.99933	.00067	94,901	6,141,505	64.69
9	94,869	59	.99938	.00062	94,839	6,046,604	63.74
10	94,810	57	.99940	.00060	94,781	5,951,765	62.78
11	94,753	59	.99938	.00062	94,724	5,856,984	61.81
12	94,694	63	.99934	.00066	94,662	5,762,260	60.85
13	94,631	70	.99926	.00074	94,596	5,667,598	59.89
14	94,561	81	.99914	.00086	94,521	5,573,002	58.94
15	94,480	95	.99899	.00101	94,432	5,478,481	57.99
16	94,385	108	.99885	.00115	94,331	5,384,049	57.04
17	94,277	119	.99874	.00126	94,218	5,289,718	56.11
18	94,158	127	.99865	.00135	94,094	5,195,500	55.18
19	94,031	134	.99857	.00143	93,964	5,101,406	54.25
20	93,897	140	.99851	.00149	93,827	5,007,442	53.33
21	93,757	145	.99845	.00155	93,684	4,913,615	52.41
22	93,612	150	.99840	.00160	93,537	4,819,934	51.49
23	93,462	152	.99838	.00162	93,386	4,726,394	50.57
24	93,310	152	.99837	.00163	93,234	4,633,008	49.65
25	93,158	152	.99837	.00163	93,082	4,539,774	48.73
26	93,006	153	.99836	.00164	92,928	4,446,692	47.81
27	92,853	154	.99834	.00166	92,776	4,353,764	46.89
28	92,699	158	.99829	.00171	92,620	4,260,988	45.97
29	92,541	163	.99824	.00176	92,459	4,168,368	45.04
30	92,378	168	.99818	.00182	92,294	4,075,909	44.12
31	92,210	173	.99812	.00188	92,123	3,983,615	43.20
32	92,037	180	.99804	.00196	91,947	3,891,492	42.28
33	91,857	187	.99797	.00203	91,764	3,799,545	41.36
34	91,670	192	.99790	.00210	91,574	3,707,781	40.45
35	91,478	200	.99782	.00218	91,378	3,616,207	39.53
36	91,278	209	.99771	.00229	91,175	3,524,829	38.62
37	91,069	223	.99755	.00245	90,957	3,433,656	37.70
38	90,846	243	.99733	.00267	90,724	3,342,699	36.80
39	90,603	267	.99705	.00295	90,469	3,251,975	35.89

Females - Femmes

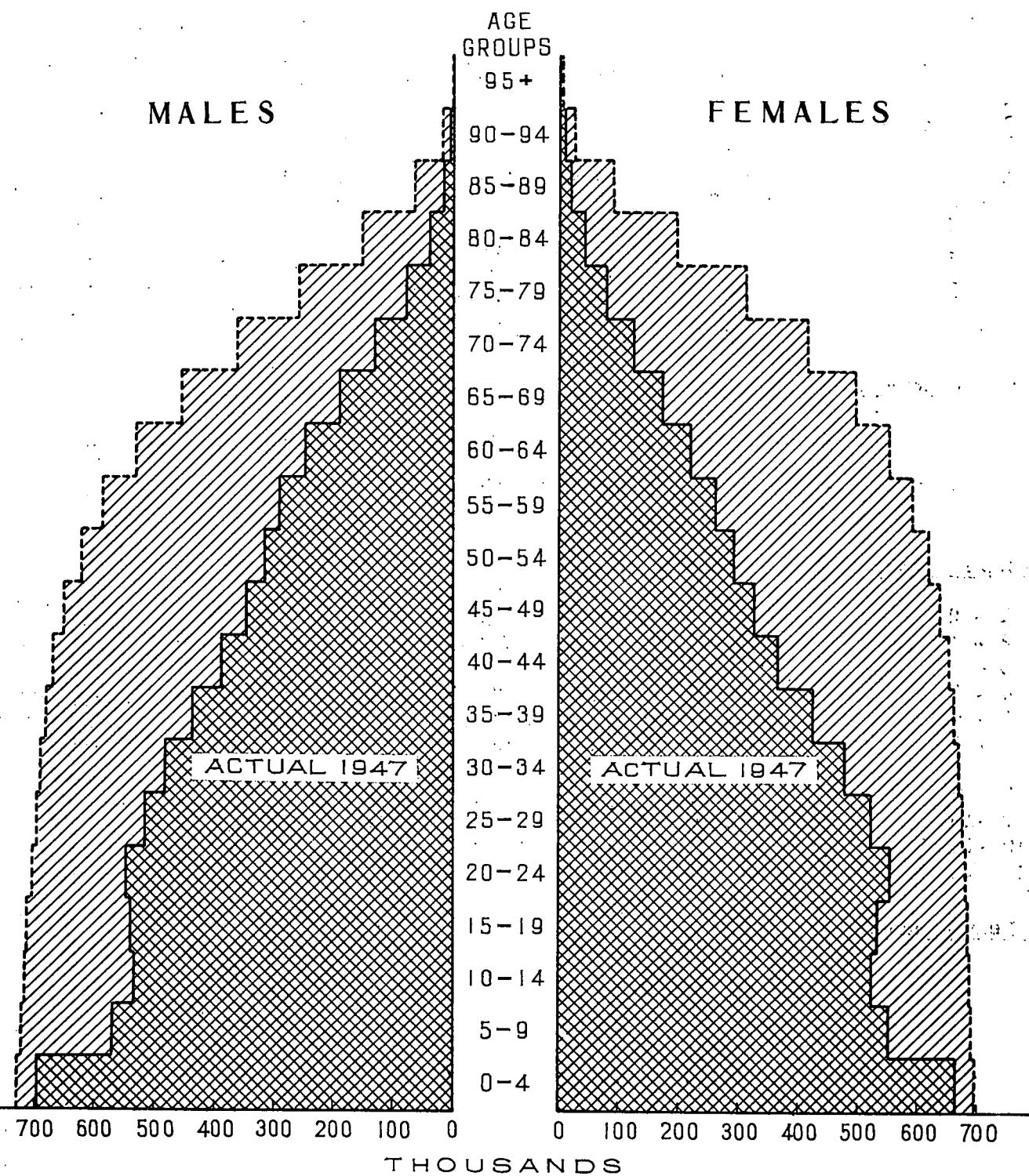
Age _x	l_x	d_x	p_x	q_x	L_x	T_x	\overline{e}_x^o
40	90,336	293	.99675	.00325	90,188	3,161,505	35.00
41	90,043	319	.99646	.00354	89,883	3,071,318	34.11
42	89,724	342	.99619	.00381	89,553	2,981,435	33.23
43	89,382	360	.99598	.00402	89,202	2,891,882	32.35
44	89,022	374	.99580	.00420	88,835	2,802,680	31.48
45	88,648	388	.99562	.00438	88,454	2,713,845	30.61
46	88,260	405	.99541	.00459	88,057	2,625,391	29.75
47	87,855	428	.99512	.00488	87,641	2,537,335	28.88
48	87,427	457	.99477	.00523	87,199	2,449,693	28.02
49	86,970	490	.99437	.00563	86,725	2,362,494	27.16
50	86,480	526	.99392	.00608	86,217	2,275,769	26.32
51	85,954	566	.99342	.00658	85,671	2,189,552	25.47
52	85,388	608	.99288	.00712	85,084	2,103,881	24.64
53	84,780	651	.99232	.00768	84,455	2,018,797	23.81
54	84,129	694	.99175	.00825	83,782	1,934,342	22.99
55	83,435	741	.99111	.00889	83,065	1,850,560	22.18
56	82,694	796	.99037	.00963	82,296	1,767,495	21.37
57	81,898	862	.98948	.01052	81,467	1,685,199	20.58
58	81,036	936	.98845	.01155	80,568	1,603,732	19.79
59	80,100	1,018	.98729	.01271	79,591	1,523,164	19.02
60	79,082	1,105	.98602	.01398	78,529	1,443,573	18.25
61	77,977	1,200	.98462	.01538	77,377	1,365,044	17.51
62	76,777	1,300	.98307	.01693	76,127	1,287,667	16.77
63	75,477	1,400	.98144	.01856	74,777	1,211,540	16.05
64	74,077	1,501	.97974	.02026	73,327	1,136,763	15.35
65	72,576	1,606	.97787	.02213	71,773	1,063,436	14.65
66	70,970	1,720	.97576	.02424	70,110	991,663	13.97
67	69,250	1,847	.97333	.02667	68,327	921,553	13.31
68	67,403	1,980	.97062	.02938	66,413	853,226	12.66
69	65,423	2,114	.96769	.03231	64,366	786,813	12.03
70	63,309	2,249	.96447	.03553	62,185	722,447	11.41
71	61,060	2,388	.96089	.03911	59,866	660,262	10.81
72	58,672	2,530	.95688	.04312	57,407	600,396	10.23
73	56,142	2,664	.95256	.04744	54,810	542,989	9.67
74	53,478	2,782	.94798	.05202	52,087	488,179	9.13
75	50,696	2,892	.94295	.05705	49,250	436,092	8.60
76	47,804	2,998	.93729	.06271	46,305	386,842	8.09
77	44,806	3,100	.93082	.06918	43,256	340,537	7.60
78	41,706	3,184	.92365	.07635	40,114	297,281	7.13
79	38,522	3,240	.91590	.08410	36,902	257,167	6.68

Canadian Life Table, 1947.
Table de survie canadienne, 1947.

Females - Femmes

Age _x	l_x	d_x	p_x	q_x	L_x	T_x	\overline{o}_x
80	35,282	3,267	.90741	.09259	33,648	220,265	6.24
81	32,015	3,267	.89796	.10204	30,382	186,617	5.83
82	28,748	3,237	.88740	.11260	27,129	156,235	5.43
83	25,511	3,168	.87582	.12418	23,927	129,106	5.06
84	22,343	3,053	.86337	.13663	20,817	105,179	4.71
85	19,290	2,896	.84984	.15016	17,842	84,362	4.37
86	16,394	2,704	.83507	.16493	15,042	66,520	4.06
87	13,690	2,480	.81886	.18114	12,450	51,478	3.76
88	11,210	2,227	.80133	.19867	10,096	39,028	3.48
89	8,983	1,953	.78261	.21739	8,007	28,932	3.22
90	7,030	1,669	.76252	.23748	6,195	20,925	2.98
91	5,361	1,339	.74086	.25914	4,667	14,730	2.75
92	3,972	1,122	.71745	.28255	3,410	10,063	2.53
93	2,850	877	.69242	.30758	2,411	6,653	2.33
94	1,973	659	.66588	.33412	1,644	4,242	2.15
95	1,314	476	.63766	.36234	1,076	2,598	1.98
96	838	329	.60757	.39243	673	1,522	1.82
97	509	216	.57542	.42458	401	849	1.67
98	293	134	.54133	.45867	226	448	1.53
99	159	79	.50543	.49457	120	222	1.40
100	80	43	.46754	.53246	58	102	1.28
101	37	21	.42746	.57254	27	44	1.17
102	16	10	.38501	.61499	11	17	1.06
103	6	4	.34031	.65969	4	6	.97
104	2	1	.29350	.70650	1	2	.88
105		1	.24438	.75562	1	1	.77

LIFE TABLE POPULATION
BASED ON
BIRTHS 5 YEARS: JUNE 1, 1942 TO JUNE 1, 1947
AND DEATH RATES 1947
ACTUAL POPULATION, JUNE 1, 1947



II.

Life Table for the First Year, Canada, 1947.
Table de survie pour la première année, Canada, 1947.

<u>Age</u> <u>x</u>	<u>l_x</u>	<u>d_x</u>	<u>p_x</u>	<u>q_x</u>	<u>L_x</u>	<u>T_x</u>	<u>e_x</u>
<u>Males - Sexe masculin</u>							
<u>Days - jours</u>							
0 - 1	100,000	1,262	.98738	.01262	99,369	6,518,173	65.18
1 - 2	98,738	356	.99639	.00361	98,560	6,517,901	66.01
2 - 3	98,382	274	.99721	.00279	98,245	6,517,631	66.25
3 - 4	98,108	173	.99823	.00177	98,021	6,517,362	66.43
4 - 5	97,935	95	.99903	.00097	97,887	6,517,093	66.55
5 - 6	97,840	74	.99925	.00075	97,803	6,516,825	66.61
6 - 7	97,766	59	.99939	.00061	97,737	6,516,557	66.65
<u>Weeks - semaines</u>							
1 - 2	97,707	298	.99695	.00305	97,558	6,516,289	66.69
2 - 3	97,409	233	.99761	.00259	97,292	6,514,413	66.88
3 - 1 month mois	97,176	194	.99801	.00199	97,079	6,512,542	67.02
<u>Months - mois</u>							
1 - 2	96,982	480	.99505	.00495	96,742	6,510,049	67.13
2 - 3	96,502	397	.99589	.00411	96,303	6,501,988	67.38
3 - 4	96,105	300	.99687	.00313	95,955	6,493,963	67.57
4 - 5	95,805	221	.99770	.00230	95,694	6,485,967	67.70
5 - 6	95,584	165	.99827	.00173	95,502	6,477,993	67.77
6 - 7	95,419	142	.99851	.00149	95,348	6,470,034	67.81
7 - 8	95,277	129	.99865	.00135	95,213	6,462,089	67.82
8 - 9	95,148	114	.99880	.00120	95,091	6,454,155	67.83
9 - 10	95,034	91	.99905	.00095	94,989	6,446,231	67.83
10 - 11	94,943	75	.99921	.00079	94,906	6,438,316	67.81
11 - 12	94,868	66	.99930	.00070	94,835	6,430,407	67.78
<u>1 Year - année</u>	94,802						

Life Table for the First Year, Canada, 1947.
Table de survie pour la première année, Canada, 1947.

<u>Age_x</u>	<u>l_x</u>	<u>d_x</u>	<u>p_x</u>	<u>q_x</u>	<u>L_x</u>	<u>T_x</u>	<u>e_x</u>
<u>Females - Sexe féminin</u>							
<u>Days - jours</u>							
0 - 1	100,000	922	.99078	.00922	99,539	6,905,309	69.05
1 - 2	99,078	254	.99743	.00257	98,951	6,905,036	69.69
2 - 3	98,824	194	.99804	.00196	98,727	6,904,765	69.87
3 - 4	98,630	120	.99879	.00121	98,570	6,904,494	70.00
4 - 5	98,510	74	.99925	.00075	98,473	6,904,224	70.09
5 - 6	98,436	66	.99953	.00067	98,469	6,903,955	70.14
6 - 7	98,370	51	.99948	.00052	98,436	6,903,685	70.18
<u>Weeks - semaines</u>							
1 - 2	98,319	236	.99760	.00240	98,200	6,903,415	70.21
2 - 3	98,083	185	.99811	.00189	97,990	6,901,527	70.36
3 - 1 month mois	97,398	141	.99856	.00144	97,827	6,899,642	70.48
<u>Months - mois</u>							
1 - 2	97,757	372	.99619	.00381	97,570	6,897,130	70.55
2 - 3	97,385	311	.99681	.00319	97,229	6,889,000	70.74
3 - 4	97,074	227	.99766	.00234	96,960	6,880,897	70.88
4 - 5	96,847	173	.99822	.00178	96,760	6,872,818	70.97
5 - 6	96,674	139	.99856	.00144	96,605	6,864,755	71.01
6 - 7	96,535	110	.99886	.00114	96,480	6,856,705	71.03
7 - 8	96,425	107	.99889	.00111	96,364	6,848,665	71.03
8 - 9	96,318	102	.99894	.00106	96,267	6,840,635	71.03
9 - 10	96,216	85	.99911	.00089	96,174	6,832,613	71.01
10 - 11	96,131	69	.99929	.00071	96,096	6,824,599	70.99
11 - 12	96,062	65	.99932	.00068	96,029	6,816,591	70.96
<u>1 Year - année</u>	95,997						

III.

Life Table for the First Year, Canada, 1940-42.
Table de survie pour la première année, Canada, 1940-42.

<u>Age_x</u>	<u>l_x</u>	<u>d_x</u>	<u>p_x</u>	<u>q_x</u>	<u>L_x</u>	<u>T_x</u>	<u>\bar{e}_x</u>
<u>Males - sexe masculin</u>							
<u>Days - jours</u>							
0 - 1	100,000	1,221	.98779	.01221	99,390	6,295,817	62.96
1 - 2	98,779	358	.99638	.00362	98,600	6,295,545	63.73
2 - 3	98,421	315	.99680	.00320	98,263	6,295,275	63.96
3 - 4	98,106	203	.99793	.00207	98,005	6,295,006	64.17
4 - 5	97,903	141	.99856	.00144	97,832	6,294,737	64.30
5 - 6	97,762	99	.99899	.00101	97,713	6,294,469	64.39
6 - 7	97,663	88	.99910	.00090	97,619	6,294,201	64.45
<u>Weeks - semaines</u>							
1 - 2	97,575	355	.99636	.00364	97,397	6,293,934	64.50
2 - 3	97,220	247	.99746	.00254	97,097	6,292,061	64.72
3 - 1 month mois	96,973	233	.99760	.00240	96,856	6,290,194	64.87
<u>Months - mois</u>							
1 - 2	96,740	605	.99375	.00625	96,438	6,287,690	65.00
2 - 3	96,135	532	.99447	.00553	95,869	6,279,653	65.32
3 - 4	95,603	395	.99587	.00413	95,405	6,271,664	65.60
4 - 5	95,208	305	.99680	.00320	95,056	6,263,714	65.79
5 - 6	94,903	252	.99734	.00266	94,777	6,255,793	65.92
6 - 7	94,651	207	.99781	.00219	94,547	6,247,895	66.01
7 - 8	94,444	186	.99803	.00197	94,351	6,240,016	66.07
8 - 9	94,258	161	.99829	.00171	94,178	6,232,153	66.12
9 - 10	94,097	129	.99863	.00137	94,032	6,224,305	66.15
10 - 11	93,968	121	.99871	.00129	93,908	6,216,469	66.16
11 - 12	93,847	97	.99897	.00103	93,798	6,208,643	66.16
<u>1 year - année</u>							
	93,750						

Life Table for the First Year, Canada, 1940-42.
Table de survie pour la première année, Canada, 1940-42.

<u>Age_x</u>	<u>l_x</u>	<u>d_x</u>	<u>p_x</u>	<u>q_x</u>	<u>L_x</u>	<u>T_x</u>	<u>e_x</u>
<u>Females - Sexe féminin</u>							
<u>Days - jours</u>							
0 - 1	100,000	895	.99105	.00895	99,552	6,629,807	66.80
1 - 2	99,105	275	.99723	.00277	98,968	6,629,534	66.89
2 - 3	98,830	217	.99780	.00220	98,722	6,629,263	67.08
3 - 4	98,613	150	.99848	.00152	98,538	6,628,993	67.22
4 - 5	98,463	122	.99876	.00124	98,402	6,628,723	67.32
5 - 6	98,341	79	.99920	.00080	98,303	6,628,453	67.40
6 - 7	98,262	65	.99934	.00066	98,229	6,628,184	67.45
<u>Weeks - semaines</u>							
1 - 2	98,197	300	.99694	.00306	98,047	6,627,915	67.50
2 - 3	97,897	202	.99794	.00206	97,796	6,626,029	67.68
3 - 1 month mois	97,695	192	.99803	.00197	97,599	6,624,148	67.80
<u>Months - mois</u>							
1 - 2	97,503	466	.99522	.00478	97,270	6,621,625	67.91
2 - 3	97,037	414	.99573	.00427	96,830	6,613,519	68.16
3 - 4	96,625	320	.99669	.00331	96,463	6,605,450	68.36
4 - 5	96,303	252	.99738	.00262	96,177	6,597,411	68.51
5 - 6	96,051	204	.99788	.00212	95,949	6,589,396	68.60
6 - 7	95,847	175	.99817	.00183	95,760	6,581,400	68.67
7 - 8	95,672	148	.99845	.00155	95,598	6,573,420	68.71
8 - 9	95,524	135	.99859	.00141	95,456	6,565,453	68.73
9 - 10	95,389	125	.99869	.00131	95,327	6,557,498	68.75
10 - 11	95,264	101	.99894	.00106	95,213	6,549,554	68.75
11 - 12	95,163	94	.99901	.00099	95,116	6,541,620	68.74
<u>1 Year - année</u>	95,069						

IV.

Life Table for the First Year, Canada, 1930-32.
Table de survie pour la première année, Canada, 1930-32.

<u>Age_x</u>	<u>l_x</u>	<u>d_x</u>	<u>p_x</u>	<u>q_x</u>	<u>L_x</u>	<u>T_x</u>	<u>g_x</u>
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Males - Sexe masculin

Days - jours

0 - 1	100,000	1,619	.98381	.01619	99,190	5,999,692	60.00
1 - 2	98,381	437	.99556	.00444	98,163	5,999,420	60.98
2 - 3	97,944	367	.99625	.00375	97,760	5,999,152	61.25
3 - 4	97,577	252	.99742	.00258	97,451	5,998,884	61.48
4 - 5	97,325	169	.99826	.00174	97,241	5,998,617	61.63
5 - 6	97,156	126	.99870	.00130	97,093	5,998,350	61.74
6 - 7	97,030	101	.99896	.00104	96,979	5,998,084	61.82

Weeks - semaines

1 - 2,	96,929	520	.99464	.00536	96,669	5,997,818	61.88
2 - 3	96,409	368	.99618	.00382	96,225	5,995,960	62.19
3 - 1 month mois	96,041	327	.99660	.00340	95,878	5,994,109	62.41

Months - mois

1 - 2	95,714	854	.99107	.00893	95,287	5,991,647	62.60
2 - 3	94,860	722	.99239	.00761	94,499	5,983,706	63.08
3 - 4	94,138	542	.99425	.00575	93,867	5,975,832	63.48
4 - 5	93,596	441	.99528	.00472	93,375	5,968,010	63.76
5 - 6	93,155	384	.99588	.00412	92,963	5,960,229	63.98
6 - 7	92,771	328	.99647	.00353	92,607	5,952,483	64.16
7 - 8	92,443	287	.99689	.00311	92,300	5,944,766	64.31
8 - 9	92,156	250	.99729	.00271	92,031	5,937,074	64.42
9 - 10	91,906	243	.99736	.00264	91,784	5,929,405	64.52
10 - 11	91,663	188	.99793	.00206	91,569	5,921,757	64.60
11 - 12	91,475	170	.99815	.00185	91,390	5,914,127	64.65

1 Year - Année

91,305

Life Table for the First Year, Canada, 1930-32.
Table de survie pour la première année, Canada, 1930-32.

Age _x	l _x	d _x	p _x	q _x	L _x	T _x	e _x
<u>Females - Sexe féminin</u>							
<u>Days - jours</u>							
0 - 1	100,000	1,217	.98783	.01217	99,392	6,210,277	62.10
1 - 2	98,783	359	.99637	.00363	98,603	6,210,005	62.86
2 - 3	98,424	269	.99726	.00274	98,290	6,209,734	63.09
3 - 4	98,155	190	.99807	.00193	98,060	6,209,465	63.26
4 - 5	97,965	125	.99872	.00128	97,902	6,209,196	63.38
5 - 6	97,840	96	.99902	.00098	97,792	6,208,928	63.46
6 - 7	97,744	83	.99915	.00085	97,703	6,208,660	63.52
<u>Weeks - semaines</u>							
1 - 2	97,661	420	.99570	.00430	97,451	6,208,393	63.57
2 - 3	97,241	305	.99686	.00314	97,088	6,206,519	63.83
3 - 1 month mois	96,936	278	.99714	.00286	96,797	6,204,651	64.01
<u>Months - mois</u>							
1 - 2	96,658	643	.99343	.00666	96,337	6,202,169	64.17
2 - 3	96,015	598	.99377	.00623	95,716	6,194,141	64.51
3 - 4	95,417	433	.99547	.00453	95,200	6,186,165	64.83
4 - 5	94,984	362	.99619	.00381	94,803	6,178,232	65.04
5 - 6	94,622	314	.99668	.00332	94,465	6,170,532	65.21
6 - 7	94,308	277	.99706	.00294	94,170	6,162,460	65.34
7 - 8	94,031	241	.99744	.00256	93,910	6,154,612	65.45
8 - 9	93,790	217	.99768	.00232	93,682	6,146,786	65.54
9 - 10	93,573	201	.99786	.00214	93,472	6,138,979	65.61
10 - 11	93,372	165	.99823	.00177	93,290	6,131,190	65.66
11 - 12	93,207	138	.99852	.00148	93,138	6,123,416	65.70
<u>1 Year - année</u>		93,069					





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